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JUN 01 2004

**OFFICIAL**

**FACSIMILE TRANSMITTAL SHEET (TRANSMITTAL TO PTO)**

**Deliver to:** Examiner Quoc Dinh Hoang  
**Firm Name:** U.S. PATENT AND TRADEMARK OFFICE  
**Fax Number:** (703) 872-9306 **Telephone No.:** (571) 272-1780  
**From:** Heather M. Molleur  
**Date:** June 1, 2004 **Time:** \_\_\_\_\_  
**Operator:** Claire Wallters **Matter:** 42390P10637  
**Number of pages including cover sheet:** 12  
**In Re Patent Application of:** Thomas N. Marieb et al.  
**Application No.:** 09/739,929  
**Filed:** December 18, 2000  
**For:** Copper Alloys For Interconnections Having Improved  
Electromigration Characteristics And Methods Of Making Same

**Enclosed are the following documents: Amendment Transmittal, in duplicate,  
Fee Transmittal, in duplicate, Amendment and Response, 5 pages.**

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**CERTIFICATE OF TRANSMISSION**

I hereby certify that this correspondence is being facsimile transmitted to the U.S. Patent and Trademark Office on:

**Date of Transmission** June 1, 2004

Claire Wallters

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Claire Wallters 6/1/2004  
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05/01/03

<u>AMENDMENT TRANSMITTAL</u>		<u>PATENT</u>
Application No.:	09/739,929	
Filing Date:	December 18, 2000	
First Named Inventor	Thomas N. Marieb	
Examiner's Name:	Hoang, Quoc Dinh	
Art Unit:	2818	
Attorney Docket No.:	42390P10637	
<p>An Amendment After Final Action (37 CFR 1.116) is attached and applicant(s) request expedited action.</p> <p><input checked="" type="checkbox"/> Charge any fee not covered by any check submitted to Deposit Account No. 02-2666.</p> <p><input checked="" type="checkbox"/> Applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 CFR 1.16 and 1.17, for any concurrent or future reply to Deposit Account No. 02-2666.</p> <p>Applicant(s) claim small entity status (37 CFR 1.27).</p>		
<b>ATTACHMENTS</b>		
<input checked="" type="checkbox"/> Preliminary Amendment <input checked="" type="checkbox"/> Amendment/Response with respect to Office Action <input type="checkbox"/> Amendment/Response After Final Action (37 CFR 1.116) (reminder: consider filing a Notice of Appeal) <input type="checkbox"/> Notice of Appeal <input type="checkbox"/> RCE (Request for Continued Examination) <input type="checkbox"/> Supplemental Declaration <input type="checkbox"/> Terminal Disclaimer (reminder: if executed by an attorney, the attorney must be properly of record) <input type="checkbox"/> Information Disclosure Statement (IDS) <input type="checkbox"/> Copies of IDS citations <input type="checkbox"/> Petition for Extension of Time <input checked="" type="checkbox"/> Fee Transmittal Document (that includes a fee calculation based on the type and number of claims) <input type="checkbox"/> Cross-Reference to Related Application(s) <input type="checkbox"/> Certified Copy of Priority Document <input type="checkbox"/> Other: <input type="checkbox"/> Other: <input type="checkbox"/> Check(s) <input type="checkbox"/> Postcard (Return Receipt)		
<b>SUBMITTED BY:</b>		
BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP		
TYPED OR PRINTED NAME: Heather M. Molfett, Reg. No. 50,432		
SIGNATURE:	Heather M. Molfett	DATE: 6/1/2004
ADDRESS: 12400 Wilshire Boulevard, Seventh Floor		
Los Angeles, California 90025		
TELEPHONE NO.: (408) 720-8300		

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(10/14/03)

Send to: COMMISSIONER FOR PATENTS, P.O. Box 1450, Alexandria, Virginia 22313-1450

Application No.: 09/739,929  
 Filing Date: December 18, 2000  
 First Named Inventor Thomas N. Marich  
 Examiner's Name: Hoang, Quoc Dinh  
 Art Unit: 2818  
 Attorney Docket No.: 42390P10637

AMENDMENT TRANSMITTALPATENT

An Amendment After Final Action (37 CFR 1.116) is attached and applicant(s) request expedited action.  
 Charge any fee not covered by any check submitted to Deposit Account No. 02-2666.  
 Applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 CFR 1.16 and 1.17, for any concurrent or future reply to Deposit Account No. 02-2666.  
 Applicant(s) claim small entity status (37 CFR 1.27).

ATTACHMENTS

Preliminary Amendment  
 Amendment/Response with respect to Office Action  
 Amendment/Response After Final Action (37 CFR 1.116) (reminder: consider filing a Notice of Appeal)  
 Notice of Appeal  
 RCE (Request for Continued Examination)  
 Supplemental Declaration  
 Terminal Disclaimer (reminder: if executed by an attorney, the attorney must be properly of record)  
 Information Disclosure Statement (IDS)  
 Copies of IDS citations  
 Petition for Extension of Time  
 Fee Transmittal Document (that includes a fee calculation based on the type and number of claims)  
 Cross-Reference to Related Application(s)  
 Certified Copy of Priority Document  
 Other:  
 Other:  
 Check(s)  
 Postcard (Return Receipt)

SUBMITTED BY:

BLAKELY SOKOLOFF TAYLOR &amp; ZAFMAN LLP

TYPED OR PRINTED NAME: Heather M. Mollicur, Reg. No. 50,432SIGNATURE: HMADDRESS: 12400 Wilshire Boulevard, Seventh Floor  
Los Angeles, California 90025TELEPHONE NO.: (408) 720-8300DATE: 6/1/2004CERTIFICATE OF TRANSMISSION

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Date of Transmission June 1, 2004

Claire Wallters

(Typed or printed name of person transmitting paper)

Claire Wallters 6/1/2004

(Signature of person transmitting paper)

Send to: COMMISSIONER FOR PATENTS, P.O. Box 1450, Alexandria, Virginia 22313-1450

(10/14/03)

**FEE TRANSMITTAL FOR FY 2004**  
(FY 2004 Begins 10/01/2003)

**TOTAL AMOUNT OF PAYMENT (\$)** 0

**Complete if Known:**

Application No. 09/739,929

Filing Date December 18, 2000

First Named Inventor Thomas N. Marib

Examiner Name Hoang, Quoc Dinh

Art Unit 2818

Attorney Docket No. 42390P10637

Applicant claims small entity status. See 37 CFR 1.27.

**METHOD OF PAYMENT (check all that apply)**

Check  Credit Card  Money Order  Other  None

Deposit Account

Deposit Account Number : 02-2666

Deposit Account Name:

The Director is Authorized to do the following with respect to the above-identified Deposit Account:

Charge fee(s) indicated below.

Credit any overpayments.

Charge any additional fees during the pendency of this application.

Any concurrent or future reply that requires a petition for extension of time should be treated as incorporating an appropriate petition for extension of time and all required fees should be charged.

Charge fee(s) indicated below except for the filing fee.

**FEE CALCULATION**

**1. BASIC FILING FEE**

Large Entity	Small Entity		
Fee	Fee	Fee	
Code	(S)	Code	(S)
1001	7702001	385	Utility application filing fee
1002	3402002	170	Design application filing fee
1003	5302003	265	Plant filing fee
1004	7702004	385	Reissue filing fee
1005	1602005	80	Provisional application filing fee
			Fee Paid
			_____
			_____
			_____
			_____
			_____

**SUBTOTAL (1)** \$ 0

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

	Extra Claims	Fee from below	Fee Paid
Total Claims	7	- 29** =	0
Independent Claims	1	- 3** =	0
Multiple Dependent			

\*\*Or number previously paid, if greater; For Reissues, see below.

**Large Entity** **Small Entity**

Fee	Fee	Fee	
Code	(S)	Code	(S)
1202	182202	9	Claims in excess of 20
1201	862201	43	Independent claims in excess of 3
1203	2902203	145	Multiple dependent claim, if not paid
1204	862204	43	**Reissue independent claims over original patent
1205	182205	9	**Reissue claims in excess of 20 and over original patent

**SUBTOTAL (2)** \$ 0

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

<u>Large Entity</u>	<u>Small Entity</u>	<u>Fee Description</u>	<u>Fee Paid</u>
Fee	Fee	Fee	
Code	(S)	Code	(S)
1051	130	2051	65
1052	50	2052	25
1053	130	1053	130
1812	2,520	1812	2,520
1813	8,800	1813	8,800
1804	920*	1804	920*
1805	1,840*	1805	1,840*
1251	110	2251	55
1252	420	2252	210
1253	950	2253	475
1254	1,480	2254	740
1255	2,010	2255	1,005
1401	330	2401	165
1402	330	2402	165
1403	290	2403	145
1451	1,510	1451	1,510
1452	110	2452	55
1453	1,330	2453	665
1501	1,330	2501	665
1502	480	2502	240
1503	640	2503	320
1460	130	1460	130
1807	50	1807	50
1806	180	1806	180
8021	40	8021	40
1809	770	2809	385
1814	110	2814	55
1810	770	2810	385
1801	770	2801	385
1802	900	1802	900
1504	300	1504	300
1505	300	1505	300
1803	130	1803	130
1808	130	1808	130
1454	1,330	1454	1,330
Acceptance of unintentionally delayed claim for priority			

Other fee (specify) \_\_\_\_\_

Other fee (specify) \_\_\_\_\_

SUBTOTAL (3) \$ 0

\*Reduced by Basic Filing Fee Paid

**SUBMITTED BY:**

Typed or Printed Name: Heather M. Molleur

Signature: H. Molleur Date: 6/1/2004

Reg. Number: 50,432 Telephone Number: (408) 720-8300

Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Based on Form PTO/SB/17 (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR &amp; ZAFMAN LLP on 09/30/03.

PAGE 5/12 \* RCVD AT 6/1/2004 6:29:29 PM [Eastern Daylight Time] \* SVR:USPTO-EFXRF-1/3 \* DNI:8729306 \* CSID:4087208383 \* DURATION (mm:ss):03:14

## FEE TRANSMITTAL FOR FY 2004

(FY 2004 Begins 10/01/2003)

TOTAL AMOUNT OF PAYMENT (\$) 0

## Complete if Known:

Application No. 09/739,929Filing Date December 18, 2000First Named Inventor Thomas N. MariebExaminer Name Hoang, Quoc DinhArt Unit 2818Attorney Docket No. 42390P10637 Applicant claims small entity status. See 37 CFR 1.27.

## METHOD OF PAYMENT (check all that apply)

Check     Credit Card     Money Order     Other     None

 Deposit AccountDeposit Account Number : 02-2666

Deposit Account Name:

 The Director is Authorized to do the following with respect to the above-identified Deposit Account:

Charge fee(s) indicated below.

 Credit any overpayments. Charge any additional fees during the pendency of this application. Any concurrent or future reply that requires a petition for extension of time should be treated as

incorporating an appropriate petition for extension of time and all required fees should be charged.

Charge fee(s) indicated below except for the filing fee.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity	Small Entity				
Fee	Fee	Fee	Fee Paid		
Code	(\$)	Code	(S)	Fee Description	
1001	7702001	385		Utility application filing fee	
1002	3402002	170		Design application filing fee	
1003	5302003	265		Plant filing fee	
1004	7702004	385		Reissue filing fee	
1005	1602005	80		Provisional application filing fee	
SUBTOTAL (1) \$ <u>0</u>					

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

	Extra Claims	Fee from below	Fee Paid
Total Claims <u>7</u>	$-29^{**} = \underline{0}$	X	=
Independent Claims <u>1</u>	$-3^{**} = \underline{0}$	X	=
Multiple Dependent			

\*\*Or number previously paid, if greater; For Reissues, see below.

## Large Entity Small Entity

Fee	Fee	Fee	Fee	Fee Description
Code	(\$)	Code	(S)	
1202	182202	9		Claims in excess of 20
1201	862201	43		Independent claims in excess of 3
1203	2902203	145		Multiple dependent claim, if not paid
1204	862204	43		**Reissue independent claims over original patent
1205	182205	9		**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) \$ 0

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity Fee	Fee	Small Entity Fee	Fee	Fee Description	Fee Paid
Code	\$	Code	\$		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1813	8,800	1813	8,800	Request for inter partes reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	For filing a submission after final rejection (see 37 CFR 1.129(n))	
1814	110	2814	55	Statutory Disclaimer	
1810	770	2810	385	For each additional invention to be examined (see 37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	
1504	300	1504	300	Publication fee for early, voluntary, or normal pub.	
1505	300	1505	300	Publication fee for republication	
1803	130	1803	130	Request for voluntary publication or republication	
1808	130	1808	130	Processing fee under 37 CFR 1.17(i) (except provisionals)	
1454	1,330	1454	1,330	Acceptance of unintentionally delayed claim for priority	
Other fee (specify)					
Other fee (specify)					

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3) \$ 0****SUBMITTED BY:**

Typed or Printed Name: Heather M. Molleur

Signature: Heather M. Molleur Date: 6/1/2004Reg. Number: 50,432 Telephone Number: (408) 720-8300

Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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Appl. No. 09/739,929  
 Amendment dated June 1, 2004  
 Reply to Office Action of March 2, 2004

JUN 01 2004

**OFFICIAL**

42390P10637

**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****In Re Application of:**

Thomas N. Marieb et al.	)	Conf. No.: 4878	
U.S. Serial No:	09/739,929	)	Examiner: Hoang, Quoc Dinh
Filed:	December 18, 2000	)	Art Unit: 2818
For:	COPPER ALLOYS FOR	)	
	INTERCONNECTIONS HAVING	)	
	IMPROVED ELECTROMIGRATION	)	
	CHARACTERISTICS AND METHODS	)	
<u>OF MAKING SAME</u>			

Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

**AMENDMENT AND RESPONSE**

Dear Sir:

This is in response to the Office Action mailed March 2, 2004. Applicant respectfully requests the Examiner to consider the following remarks.

**CERTIFICATE OF TRANSMISSION**

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Date of Transmission June 1, 2004Claire Wallters

(Typed or printed name of person transmitting paper)

Claire Wallters 6/1/2004

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